

Certification Summary Information Report

Manufacturer	Tesla, Inc.	Manufacturer Code	TSL
Test Group	HTSL V00.0L13	Evaporative/Refueling Family	--
Certificate Number	HTSL V00.0L13-004	CARB Executive Order #	--
Certificate Issue Date	07/05/2017	Certificate Revision Date	--
Certificate Effective Date	07/05/2017	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	06/30/2017 08:04:21 PM
Model Year	2017		

Test Group Information			
CSI Type	New	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)			
Drive Source #1:	Electric Motor		

	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
	Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	HTSLEEVENN13	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/03/2017	CAP2000 Conditional Certificate?	No
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	HTSL V00.0L13
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	MY2017 certification for Model 3 Long Range carline.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		HTSLV00.0L13				Evaporative/Refueling Family				--	
Models Covered by this Certificate											
Carline Manufacturer	Division	Carline	Certification Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup				
Tesla, Inc.	1 - Tesla Motors	82 - Model 3 Long Range	Federal	2-Wheel Drive, Rear	Other	1	No				
Engine Description											
Hybrid Type	--	Hybrid Description				--					
Engine Type	--	Mfr Engine Description				--					
Engine Block Arrangement	--	Mfr Engine Block Arrangement Description				--					
Camless Valvetrain Indicator	--	Oil Viscosity/Classification				--					
Number of Cylinders/Rotors	--	Mechanically Variable Compression Ratio Indicator				--					
After Treatment Device(s) (ATD)											
Mfr After Treatment Device (ATD)	--										
Comments	--										
Direct Ozone Reduction (DOR) Device	--										
Mfr Emission Control Device Comments	--										
Official Test Numbers											
Test Group	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor	
Fuel	--	--	--	--	--	--	--	--	--	--	--
Electricity	--	--	--	--	--	--	--	--	--	--	--
Official Charge Depleting Test Numbers											
Test Group Fuel		UDDS		Highway							
Electricity		HTSL10049210		HTSL10049211							

Certification Summary Information Report

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Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	350	Battery Energy Capacity	230
Battery Specific Energy	150	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	1		
Motor/Generator Type 1	AC 3 PHASE PERMENANT MAGNET	Rated Motor/Generator Power	192
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	2017MY Model 3 RWD Long Range Carline		

Certification Summary Information Report

Test Group	HTSL V00.0L13			Evaporative/Refueling Family			--
Emission Data Vehicle Information							
Vehicle ID / Configuration	3R217-R00012 / 0			Manufacturer Vehicle Configuration Number			0
Original Test Group Name	HTSL V00.0L13			Original Evaporative/Refueling Family			--
Original Test Vehicle Model Year	2017						
Vehicle Model							
Represented Test Vehicle Make	Tesla Model 3			Represented Test Vehicle Model			Long Range
Leak Family Details							
Leak Family Identifier	--			Leak Family Name			
Drive Sources and Fuel System Details							
Drive Source and Fuel#		Drive Source		Fuel			
1		Electric Motor		Electricity			
Hybrid Indicator	No						
Multiple Fuel Storage	--			Multiple Fuel Combustion			
Fuel Cell Indicator	No			Rechargeable Energy Storage System Indicator			
Rechargeable Energy Storage System	Battery(s)			Rechargeable Energy Storage System, if 'Other'			
Off-board charge Capable Indicator	Yes			--			
Odometer Correction -- Initial	1			Odometer Correction Factor			
Odometer Correction Sign	-			- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor			
Odometer Correction Units	Miles						
Engine Code	L13			Rated Horsepower			
Displacement (liters)	0.001			258			
Air Aspiration Method	Naturally Aspirated			Air Aspiration Method, if 'Other'			
Number of Air Aspiration Devices	--			Air Aspiration Device Configuration			
Charge Air Cooler Type	--			Drive Mode While Testing			
Shift Indicator Light Usage	Not equipped			Aged Emission Components			
Curb Weight (lbs)	3837			Equivalent Test Weight (pounds)			
GVWR (lbs)	--			N/V Ratio			
Axle Ratio	9			116.1			
Transmission Type	Direct Drive			# of Transmission Gears			
Transmission Lockup	No			Creep Gear			
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			
Coefficient Category	A (lb/f)	B (lb/f/mph)	C (lb/f/mph**2)	A (lb/f)	B (lb/f/mph)	C (lb/f/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
City/Highway/Evap	38.51	-0.0811	0.0161	-12.12	0.2046	0.0115	10
Emission Control Device Comments: No Emissions Control Device - Pure Electric							

Certification Summary Information Report

Test Group	HTSLV00.0L13	Evaporative/Refueling Family	--
Test #	HTSL10049210	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/16/2017	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--	Odometer Units	M
Test Start Odometer Reading	5595	Diesel Adjustment Factor Usage	--
4WD Test Dyno	Yes		
State of Charge Delta	--	Road Speed Fan Usage	Yes
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)		
PHEV/EV TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	89.404
Charge Depleting Range (Calculated miles)	495.11	Charge Depleting Range (Actual miles)	495.04
Equivalent All Electric Range (miles)	495.11		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	495.11	
2	Average System Voltage	351	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	-0.65	
7	Drive Trace Energy Economy Rating	-0.86	
8	Drive Trace Inertia Work Ratio Rating	-1.12	
9	Integrated Amp-hours	222.81	
10	Manufacturer Fuel Economy	186.628	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Wait-hours	0	
14	System Start State of Charge Wait-hours	0	

Manufacturer Test Comments

Internal Test results for MY2017 Model 3 Long Range. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 78270 wh. MCT de wh/ni is attached with EPA application.

Certification Summary Information Report

Test Group	HTSL V00.0L13	Evaporative/Refueling Family	--
Test #	HTSL10049211	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	06/16/2017	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Fremont Dyno		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	5595	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV TEST INFO			
Recharge Event Voltage	208	Recharge Event Energy (kiloWatt-hours)	89.41
Charge Depleting Range (Calculated miles)	454.64	Charge Depleting Range (Actual miles)	454.64
Equivalent All Electric Range (miles)	454.64		
Number of Charge Depleting Bags/Phases Conducted	1		
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	454.64	
2	Average System Voltage	351	
3	Carbon Monoxide	0	
4	Carbon dioxide	0	
5	Carbon-Related Exhaust Emissions	0	
6	Drive Trace Absolute Speed Change Rating	-1.06	
7	Drive Trace Energy Economy Rating	-0.6	
8	Drive Trace Inertia Work Ratio Rating	-1.3	
9	Integrated Amp-hours	221.81	
10	Manufacturer Fuel Economy	171.431	
11	Nitrogen Oxide	0	
12	Particulate Matter	0	
13	System End State of Charge Watt-hours	0	
14	System Start State of Charge Watt-hours	0	

Manufacturer Test Comments

Internal Test results for MY2017 Model 3 Long Range. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 78270 wh.
MCT de wh/mi is attached with application.

Certification Summary Information Report

Test Group	HTSLV00.0L.13	Evaporative/Refueling Family	--
Fuel Properties			

Certification Summary Information Report

Test Group	HTSL V00.0L13										Evaporative/Refueling Family										--				
Consolidated List of Standards																									
Exhaust Standards																									
Cert Region	Federal										Cert/In-Use Code										Cert				
Vehicle Class	LDV/Passenger Car										Standard Level										Federal Tier 3 Bin 0				
Fuel	Electricity										Test Procedure										CVS 75 and later (w/o can, load)				
Useful Life	Emission Name	Rounded Result		RAF	NMOG / NMHC		Upward Diesel Adjustment Factor		Downward Diesel Adjustment Factor		Mult DF		Add DF		Std										
150,000 miles	CO	--		--	--		--		--		1		--		0										
150,000 miles	CREE	--		--	--		--		--		1		--		0										

Certification Summary Information Report

Test Group	HTSL V00.0L13	Evaporative/Refueling Family	--
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	METHANOL	CH3OH - Methanol
CO	Carbon Monoxide	N2O	Nitrous Oxide
CO2	Carbon dioxide	SPITBACK	Spitback Hydrocarbon in grams
CREE	Carbon-Related Exhaust Emissions	AMP-HRS	Integrated Amp-hours
OPT-CREE	Optional Carbon-Related Exhaust Emissions	START-SOC	System Start State of Charge Wait-hours
NOX	Nitrogen Oxide	END-SOC	System End State of Charge Wait-hours
PM	Particulate Matter	ACT-DISTANCE	Actual Distance Driven (miles)
PM-COMP	SFTP Composite Particulate Matter	AS-VOLT	Average System Voltage
HC-NM	Non-methane Hydrocarbon	CO2 BAG 1	Bag 1 Carbon Dioxide
OMHCE	Organic material Hydrocarbon Equivalent	CO2 BAG 2	Bag 2 Carbon Dioxide
OMNMHCE	Organic material non-methane HC equivalent	CO2 BAG 3	Bag 3 Carbon Dioxide
NMOG	Non-methane organic gas	CO2 BAG 4	Bag 4 Carbon Dioxide
HCHO	Formaldehyde	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
H3C2HO	Acetaldehyde	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	DT-ASCR	Drive Trace Absolute Speed Change Rating
CO-COMP	SFTP Composite Carbon Monoxide	DT-EER	Drive Trace Energy Economy Rating
ETHANOL	C2H5OH - Ethanol	COMB-CREE	Combined Carbon-Related Exhaust Emissions
FE BAG 1	Bag 1 Fuel Economy	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
FE BAG 2	Bag 2 Fuel Economy	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
FE BAG 3	Bag 3 Fuel Economy	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
FE BAG 4	Bag 4 Fuel Economy	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
MFR FE	Manufacturer Fuel Economy	LEAK-DIA	Effective Leak Diameter (inches)
HC	Hydrocarbon for Running Loss and ORVR	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
METHANE	CH4 - Methane	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	L3ULEV340	California LEV-III ULEV340
B2	Federal Tier 2 Bin 2	L3ULEV250	California LEV-III ULEV250
B3	Federal Tier 2 Bin 3	L3ULEV200	California LEV-III ULEV200
B4	Federal Tier 2 Bin 4	L3SULEV170	California LEV-III SULEV170
B5	Federal Tier 2 Bin 5	L3SULEV150	California LEV-III SULEV150

Certification Summary Information Report

Test Group	HTSLS V00.0L13	Evaporative/Refueling Family	--
B6	Federal Tier 2 Bin 6	L3LEV630	California LEV-III LEV630
B7	Federal Tier 2 Bin 7	L3ULEV570	California LEV-III ULEV570
B8	Federal Tier 2 Bin 8	L3ULEV400	California LEV-III ULEV400
B9	Federal Tier 2 Bin 9	L3ULEV270	California LEV-III ULEV270
B10	Federal Tier 2 Bin 10	L3SULEV230	California LEV-III SULEV230
B11	Federal Tier 2 Bin 11	L3SULEV200	California LEV-III SULEV200
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	T3B160	Federal Tier 3 Bin 160
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	T3B125	Federal Tier 3 Bin 125
L2	California LEV-II LEV	T3B110	Federal Tier 3 Transitional Bin 110
L2OP	California LEV-II LEV Optional	T3B85	Federal Tier 3 Transitional Bin 85
U2	California LEV-II ULEV	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
S2	California LEV-II SULEV	T3B70	Federal Tier 3 Bin 70
ZEV	California ZEV	T3B50	Federal Tier 3 Bin 50
OT	Other	T3B30	Federal Tier 3 Bin 30
T1	Federal Tier 1	T3B20	Federal Tier 3 Bin 20
PZEV	California PZEV	T3B0	Federal Tier 3 Bin 0
L2LEV160	California LEV-II LEV160	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
L2ULEV125	California LEV-II ULEV125	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
L2SULEV30	California LEV-II SULEV30	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2LEV395	California LEV-II LEV395	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2ULEV340	California LEV-II ULEV340	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
L2LEV630	California LEV-II LEV630	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
L2ULEV570	California LEV-II ULEV570	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
L3LEV160	California LEV-III LEV160	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
L3ULEV125	California LEV-III ULEV125	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
L3ULEV70	California LEV-III ULEV70	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
L3ULEV50	California LEV-III ULEV50	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L3SULEV30	California LEV-III SULEV30	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L3SULEV20	California LEV-III SULEV20	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L3LEV395	California LEV-III LEV395	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
Transmission Type Code			
AMS	Automated Manual-Selectable (e.g. Automated Manual with paddles)	M	Manual
A	Automatic	OT	Other
AM	Automated Manual	SA	Semi-Automatic
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)
Drive System Code			
4	4-Wheel Drive	P	Part-time 4-Wheel Drive
F	2-Wheel Drive, Front	A	All Wheel Drive
R	2-Wheel Drive, Rear		

Certification Summary Information Report

Test Group	HTSL V00.01.13	Evaporative/Refueling Family	--
Additional Terms and Acronyms			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission